DYNAMIC FRAME SIZE ADJUSTMENT AND SELECTIVE REJECT ON A MULTI-LINK CHANNEL TO IMPROVE EFFECTIVE THROUGHPUT AND BIT ERROR RATE

Abstract of the Disclosure

A base station provides wireless communication of digital signals, with the digital signals being communicated in frames using a radio frequency channel via Code Division Multiple Access (CDMA) modulated radio signals. The base station includes a wireless transceiver for establishing a communication session over a digital communication path, and a bandwidth management module connected to the wireless transceiver for allocating a code channel within the radio frequency channel for the digital communication path to exchange digital signals during the communication session. The bandwidth management module also divides a current frame of digital signals into subframes to be transmitted within the code channel. The wireless transceiver transmits the subframes over the digital communication path, and receives feedback over the digital communication path on the subframes received with errors. The bandwidth management module adjusts a size of each subframe received with errors to a more efficient subframe size to be retransmitted over the digital communication path.